

~~SECRET~~NPIC/TSSG/DED-1074-68  
16 February 1968

MEMORANDUM FOR: Director, National Photographic Interpretation Center

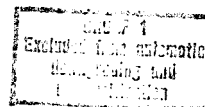
SUBJECT : Request for Approval to Commit Funds Amounting to [ ]  
for the Second Phase of the Digitized Measuring Light  
Table Development with [ ]

1. In FY-1967, approval was granted by the Director, NPIC for the development of a Digitized Measuring Light Table. This table was an engineering model to enable NPIC to perform feasibility tests of a general purpose, on-line mensuration system for photo interpreters. The development of the table was undertaken in two phases. The first phase was required to permit a two-axis linear measurement system (DIG) to be used on-line with NPIC's computer. The second phase of the development (FY-1968) was the mounting of the DIG system on a suitable light table.

2. [ ] was awarded the contract for Phase I in FY-1967. This contract, [ ] T.O. 16, requires [ ] to deliver the DIG system and the interface console for an estimated cost of [ ]. The current delivery date for the completed console is 29 February 1968.

3. After a thorough review of costs and specifications of all available light tables, the technical staff of TSSG determined that the most reasonable choice of a light table for mounting the DIG measuring system would be the new [ ] Master Series 940 MCE with vacuum film hold-down. If approval for this project is received in the near future, [ ] has agreed to make the necessary modifications and to mount the DIG on a GFE light table at a minimal cost to the Government. This assumes that we will agree to their demonstrating the table to the community--the total cost of this project includes the purchase price of the 940 light table. There are no contractual or security problems apparent, and this arrangement insures early delivery at a considerable reduction in cost from our original estimate of [ ] for a more exotic light table.

4. This project is unique and designed to match NPIC on-line computer system and computer programs. There is no situation outside NPIC which would require an input station like this; as a consequence, coordination outside NPIC was deemed unnecessary.



Declass Review by NGA.

SECRET

SUBJECT: Request for Approval to Commit Funds Amounting to [ ] for  
the Second Phase of the Digitized Measuring Light Table Develop-  
ment with [ ]

5. It is requested that approval be granted to negotiate with the  
[ ] See a contract to deliver a modified Light Table  
with a Government-furnished DED Measuring System mounted on it at a cost  
not to exceed [ ]

Chief, Technical Services & Support Group,  
NPIC

Attachments:

R&D Catalog Form

Proposal

APPROVED:

ARTHUR C. LUNDHILL  
Director

National Photographic Interpretation Center

1 MAR 1968

Date

Distribution:

Original - NPIC/TSSG/SS/LB (after approval)

- 1 - NPIC/ODir
- 1 - NPIC/TSSG
- 1 - NPIC/TSSG/SS
- 1 - NPIC/TSSG/DED

NPIC/TSSG/DED/[ ] (16 Feb 68)

R & D CATALOG FORM		DATE
1. PROJECT TITLE/CODE NAME DIGITIZED MEASURING LIGHT TABLE		2. SHORT PROJECT DESCRIPTION This device will allow a modified light table to be connected on-line with the in-house computer. (Follow-On) (Phase II)
3. <input type="text"/>		4. LOCATION OF CONTRACTOR
5. CLASS OF CONTRACTOR Manufacturer		6. TYPE OF CONTRACT
7. FUNDS FY 19 67 <input type="text"/> FY 19 68 <input type="text"/> FY 19 69 \$ None	8. REQUISITION NO.	9. BUDGET PROJECT NO. NP-V-5-02058
10. EFFECTIVE CONTRACT DATE (Begin - end)		11. SECURITY CLASS. AA - Confidential T - Unclassified W - Unclassified
12. RESPONSIBLE DIRECTORATE/OFFICE/PROJECT OFFICER TELEPHONE EXTENSION DDI/NPIC/TDS <input type="text"/>		
13. REQUIREMENT/AUTHORITY Operational components require a simplified, accurate measuring system and a quick indexing input station		
14. TYPE OF WORK TO BE DONE Design and Fabrication		
15. CATEGORIES OF EFFORT		
MAJOR CATEGORY Viewing Systems		SUB-CATEGORIES Photogrammetry Photo Interpretation Reporting Techniques
16. END ITEM OR SERVICES FROM THIS CONTRACT/IMPROVEMENT OVER CURRENT SYSTEM, EQUIPMENT, ETC. The results of this contract will be to modify a light table equipped with <input type="text"/> "Dig" measuring scales and removable reading heads.		
17. SUPPORTING OR RELATED CONTRACTS (Agency & Other)/COORDINATION The project is unique and styled to match the NPIC on-line computer system and computer programs. There is no situation outside NPIC which would require an input station like this, as a consequence, coordination outside NPIC was deemed unnecessary.		
18. DESCRIPTION OF INTELLIGENCE REQUIREMENT AND DETAILED TECHNICAL DESCRIPTION OF PROJECT (Continue on additional page if required) This project is the completion of pilot operational unit which will demonstrate the feasibility of a general use, on-line PI mensuration station. This station will allow the photo interpreter to make realitively precise measurements, input the coordinates of targets to the computer, and make plots of target areas, all without cutting up the roll of film or removing the film from his general viewing light table. The project consists of mounting the dig system; solving small interface problems and modifying the light table to serve as a pre-production prototype.		
19. APPROVED BY AND DATE		
OFFICE	DEPUTY DIRECTOR	DDCI
Approved For Release 2005/05/02 : CIA-RDP78B04770A002200020004-3		

25X1

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For your

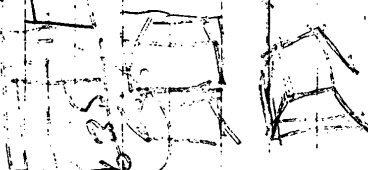
940 MCE

940 MCE Series

Prototype

Prototype

Figure 10



possible  
hole

Vacuum  
or  
glass plate

Vacuum  
or  
glass plate

glass plate

glass plate

glass plate

Mounting  
Die  
x axis  
& head

on top of  
(possible dust cover)

under V. of  
of cover and camera (dust cover)

on carriage  
on side  
(possible dust cover)

on rear top  
(camera dust cover)

on rear top  
(requires dust cover)

Mounting  
Die  
V. axis  
& head

on carriage  
with dust  
extension  
(dust cover)

on side of  
table  
(dust cover)

on carriage  
(dust cover)

on carriage  
(dust cover)

on carriage  
(dust cover)

guess  
of  
accuracy

x - 10μ

y - 4μ

x - 3μ

y - 10μ

x - 5μ

y - 3μ

x - 5μ

y - 4μ

x - 5μ

y - 4μ

nd  
900 / nm

175 μm dyf between  
blue & green (green & red)  
at focal dist used

25X1